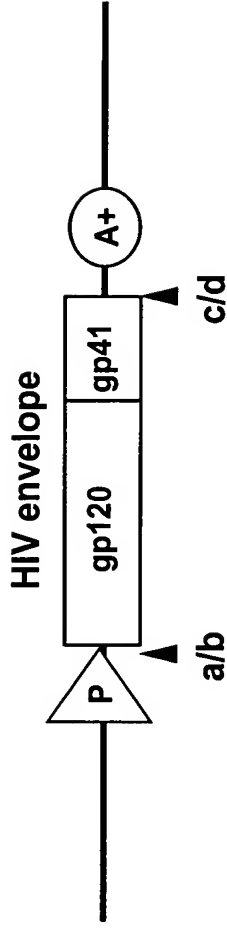


# PhenoSense HIV Entry Assay

Envelope Expression Vector: pHIVenv



HIV-1 Expression Vector: pHIVluc $\Delta$ U3

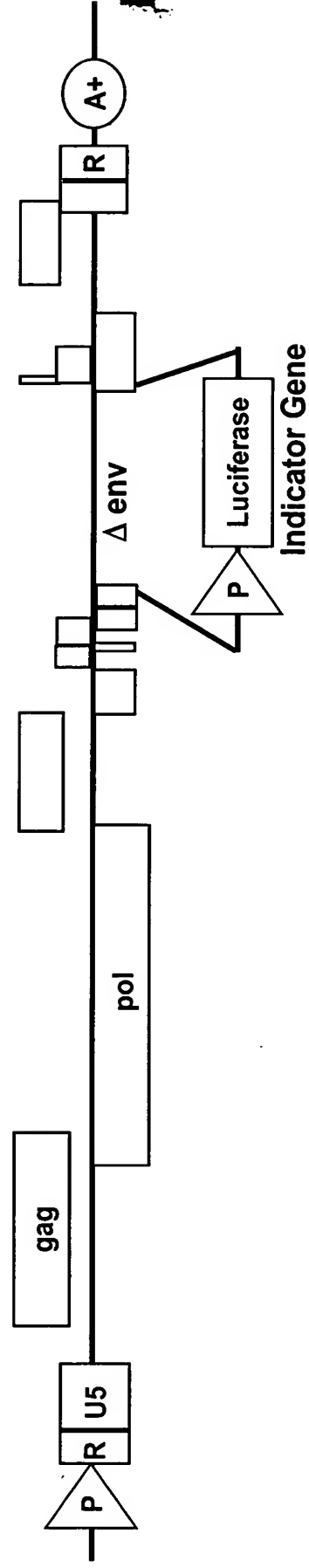


Fig. 1A

# PhenoSense™ HIV: Cell Assay

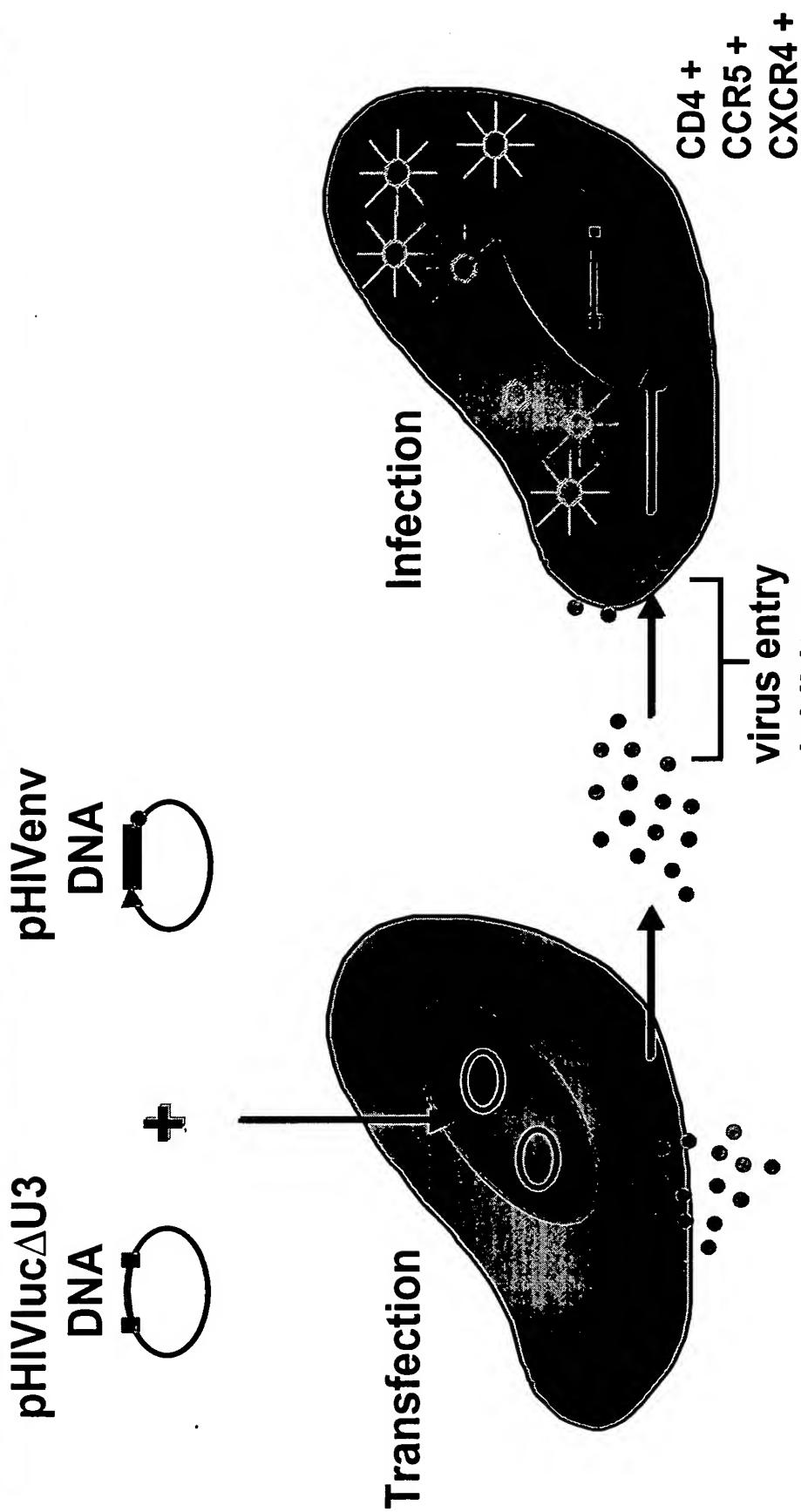


Fig. 1B

# HIV Envelope Expression Strategies

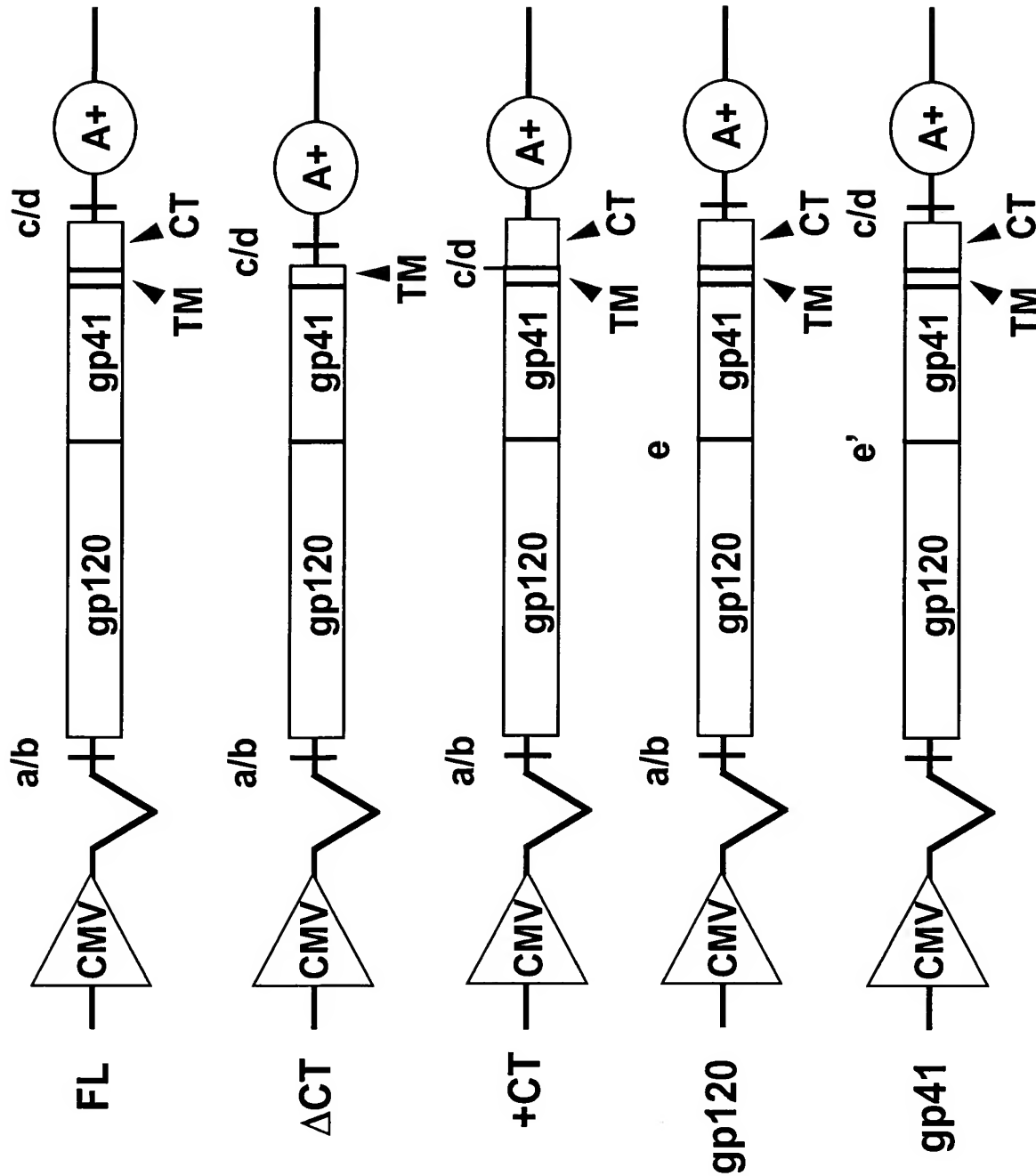


Fig. 2

# Co-Receptor Tropism Screen

CCR5-expressing cells

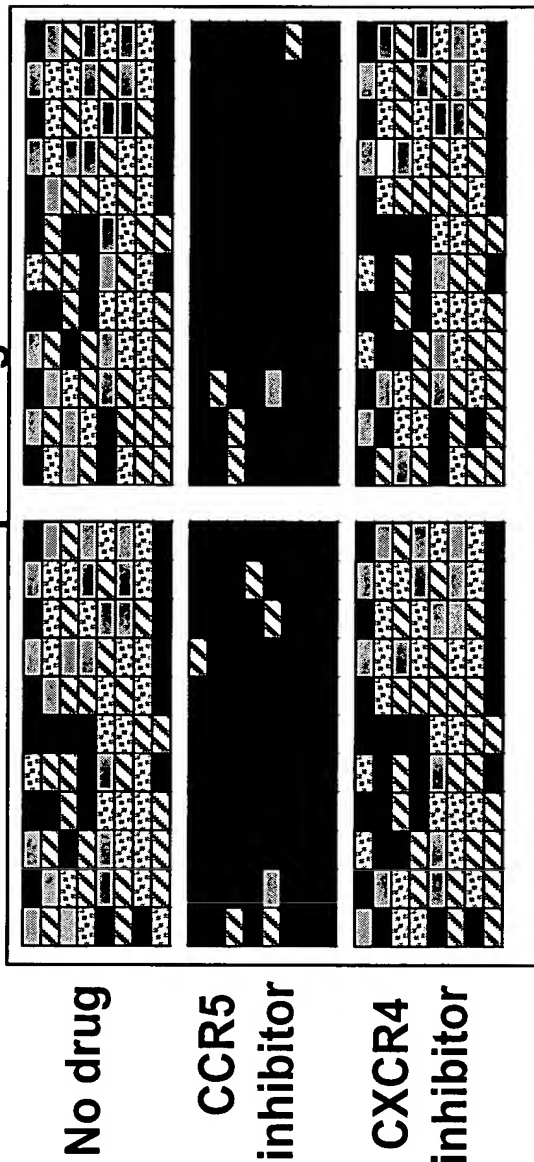
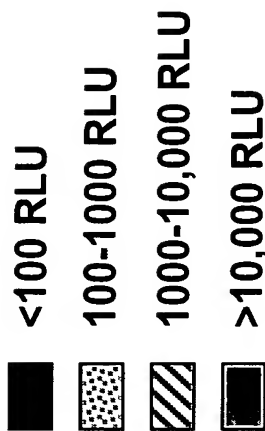
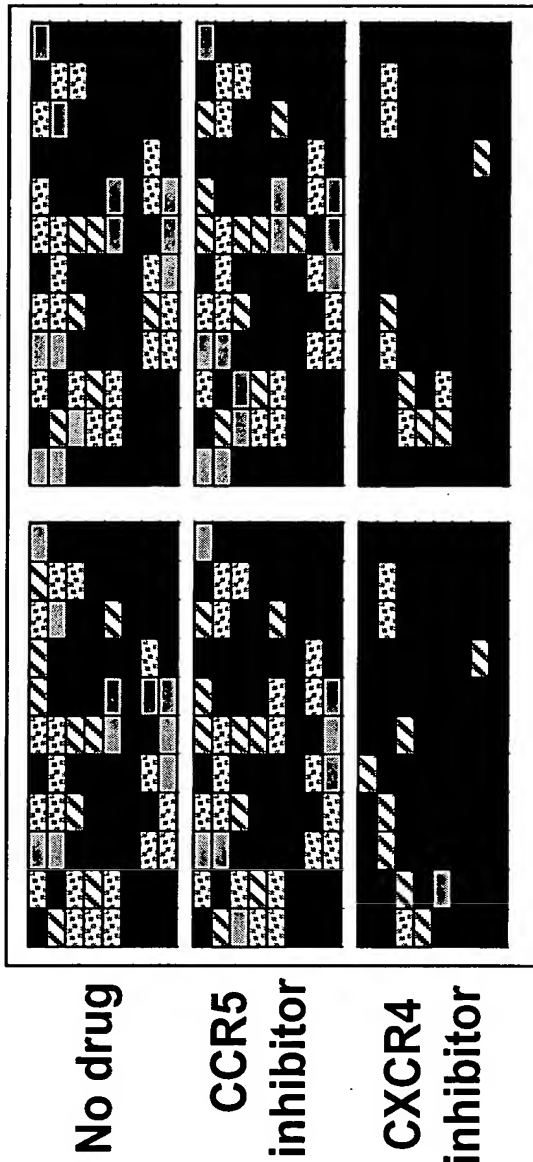


Fig. 3A



Replicate 2



CXCR4-expressing cells

# Co-Receptor Tropism Assay Interpretation

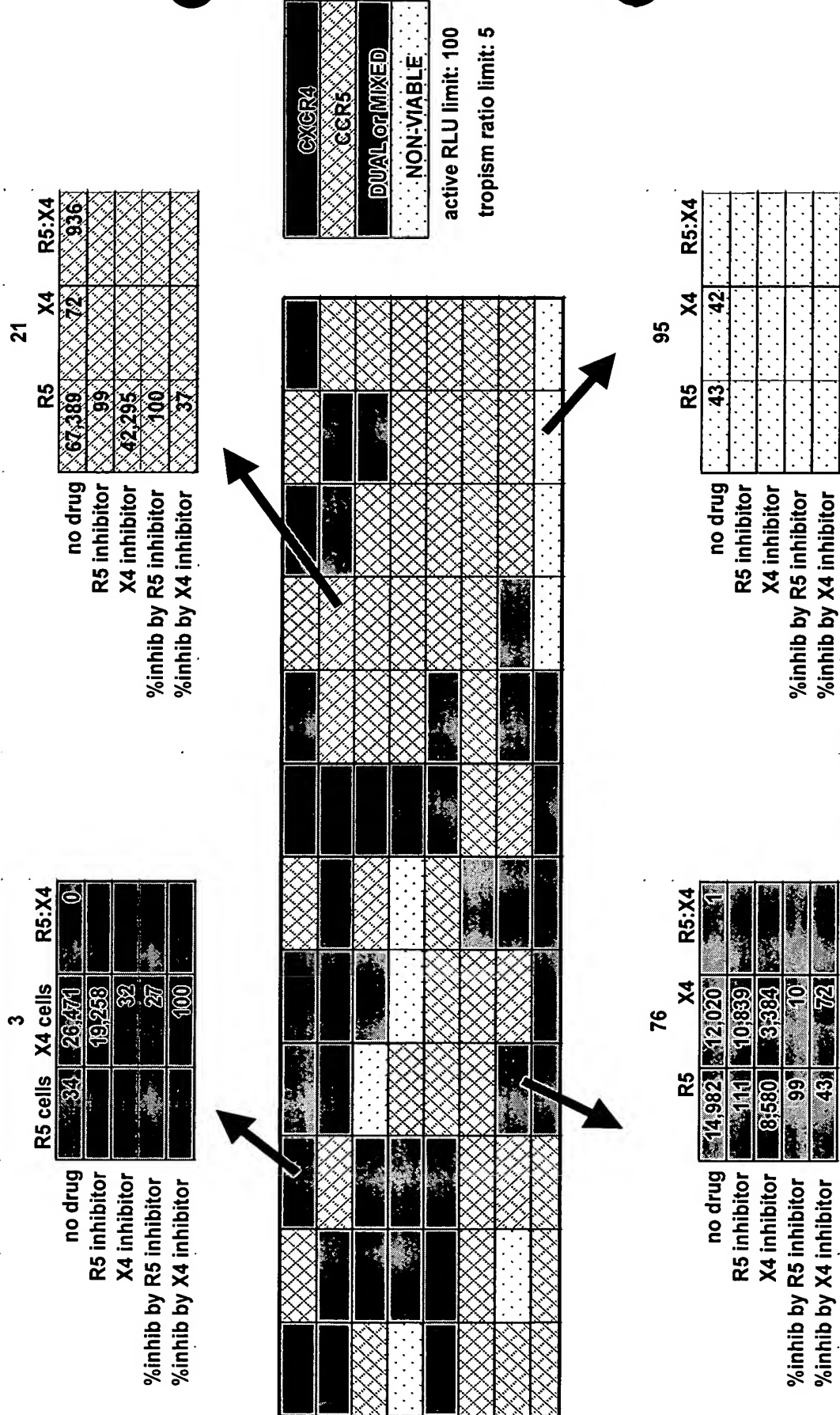


Fig. 3B

# Entry Inhibitor Susceptibility: Fusion Inhibitor

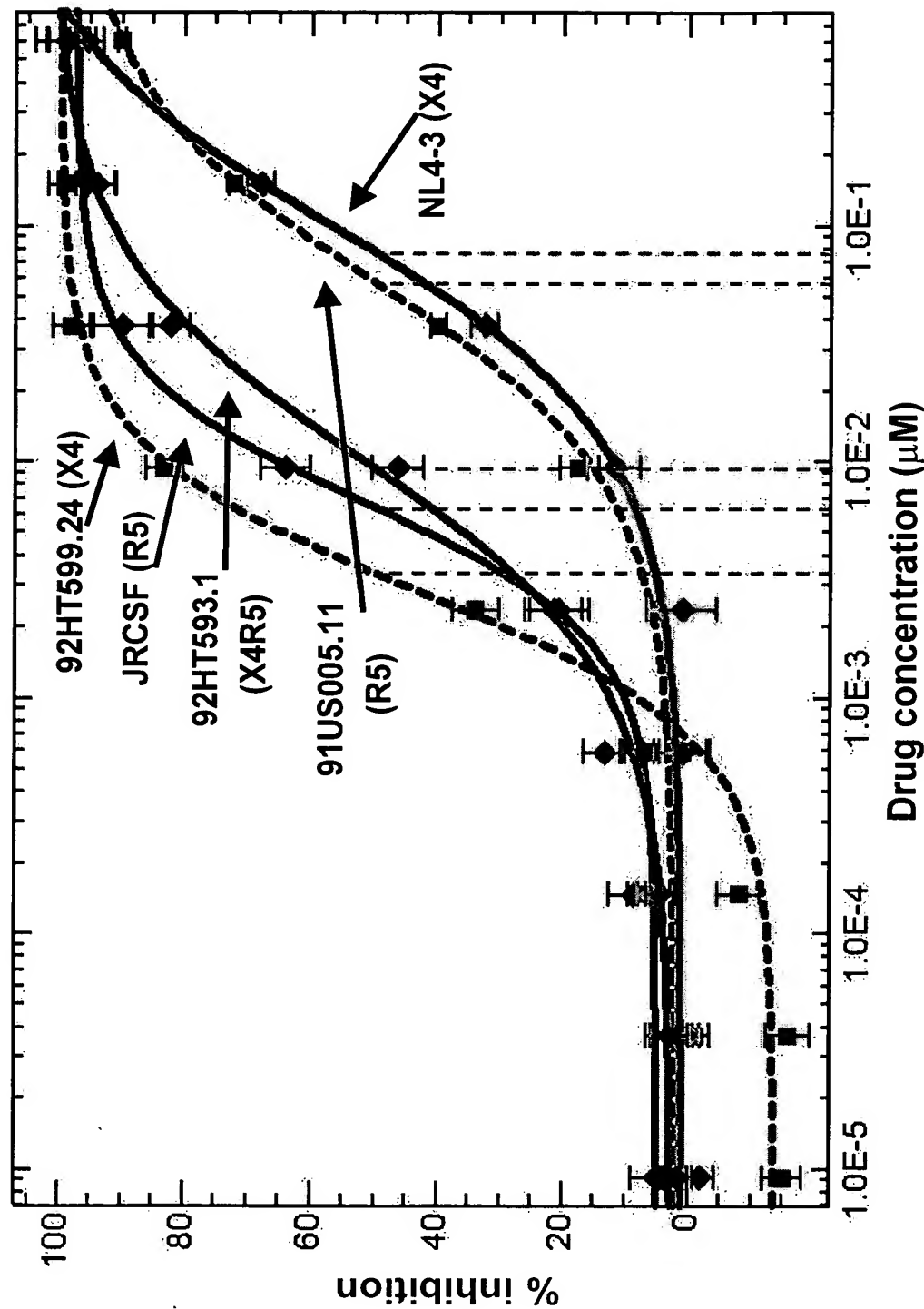


Fig. 4A

# Reduced Susceptibility: Fusion Inhibitor

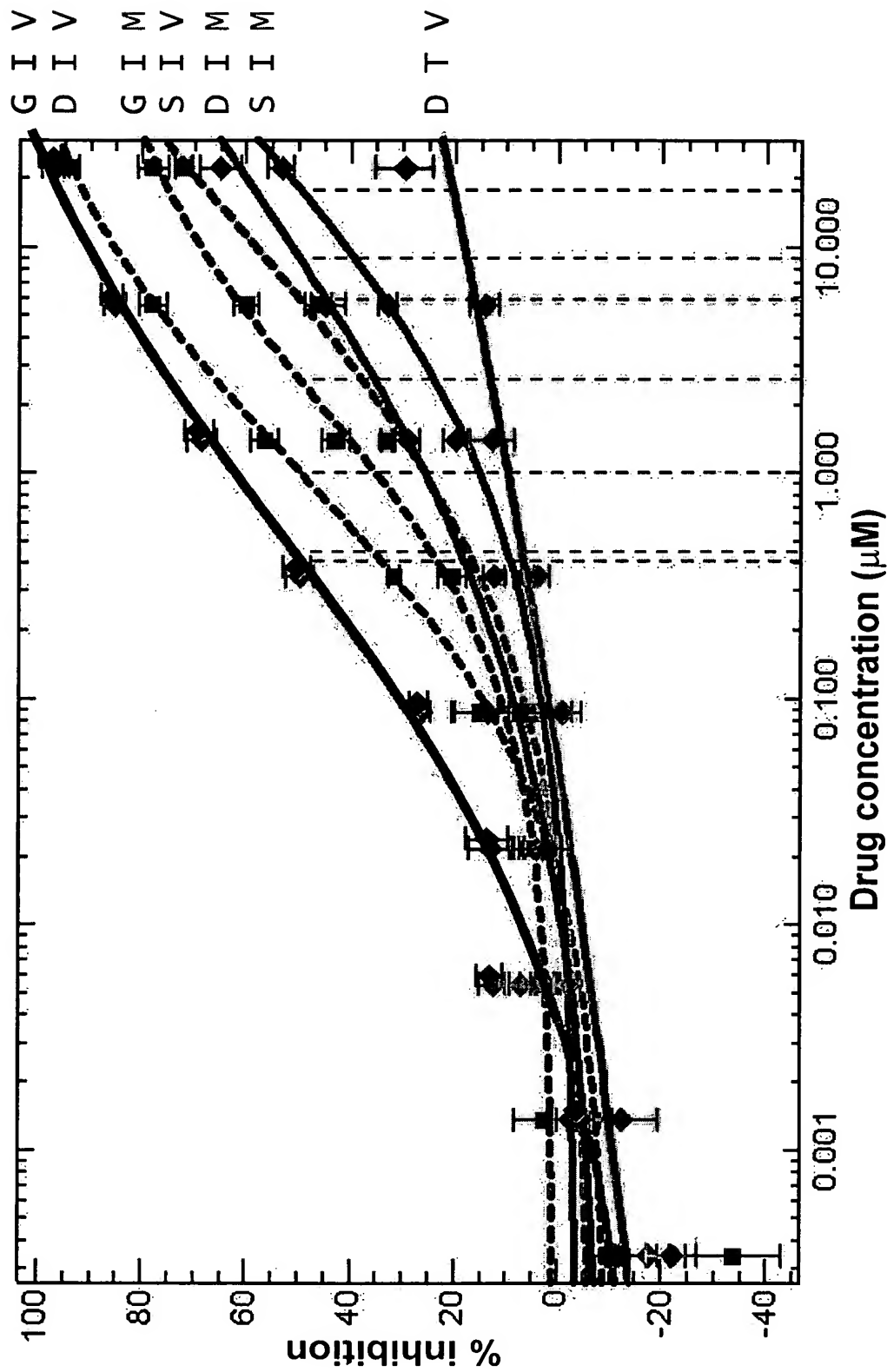


Fig. 4B

# Entry Inhibitor Susceptibility: CCR5 Inhibitor

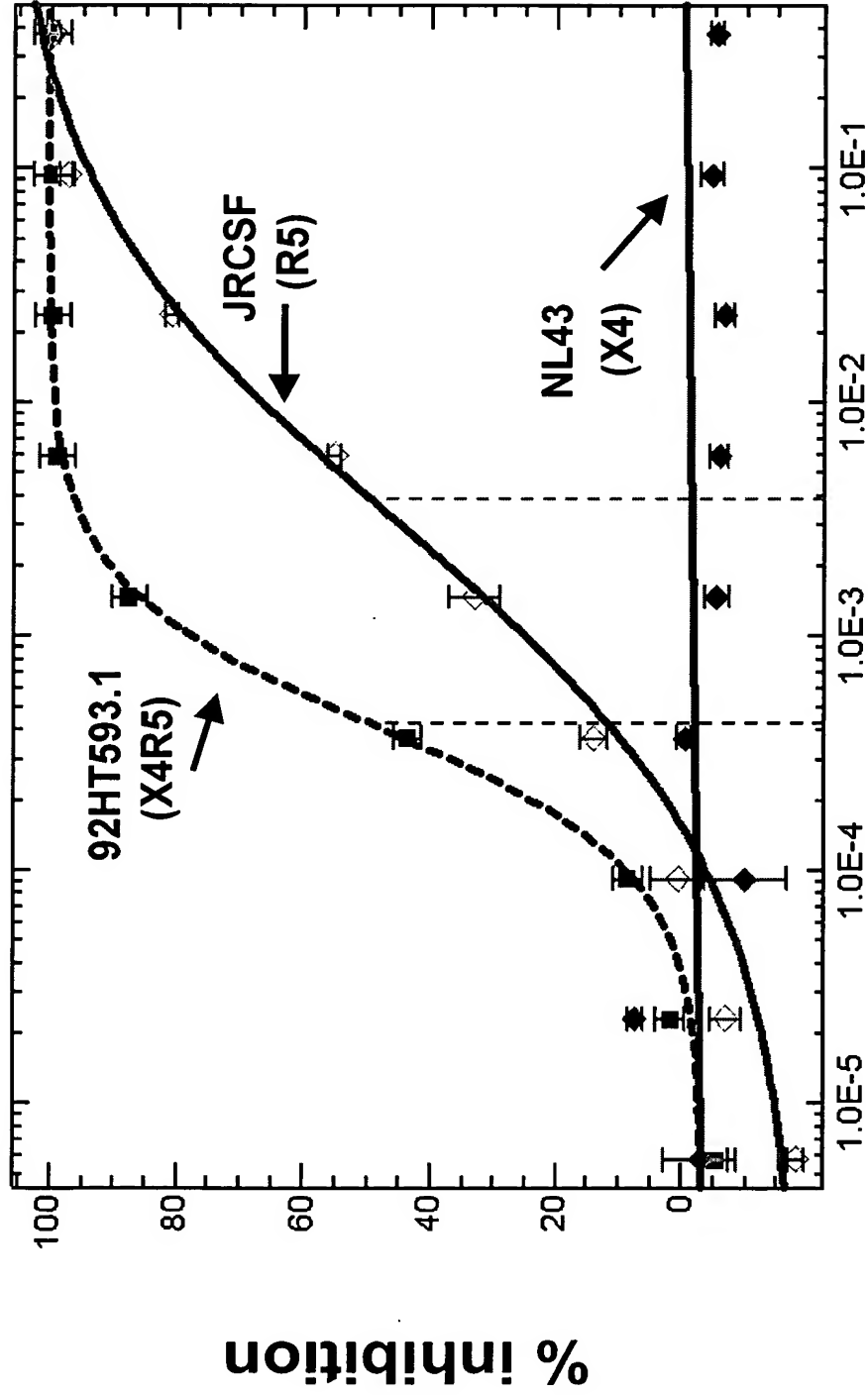


Fig. 5A

Drug: R5 Inhibitor  
Cell: CD4/CCR5





# Entry Inhibitor Susceptibility: CXCR4 Inhibitor

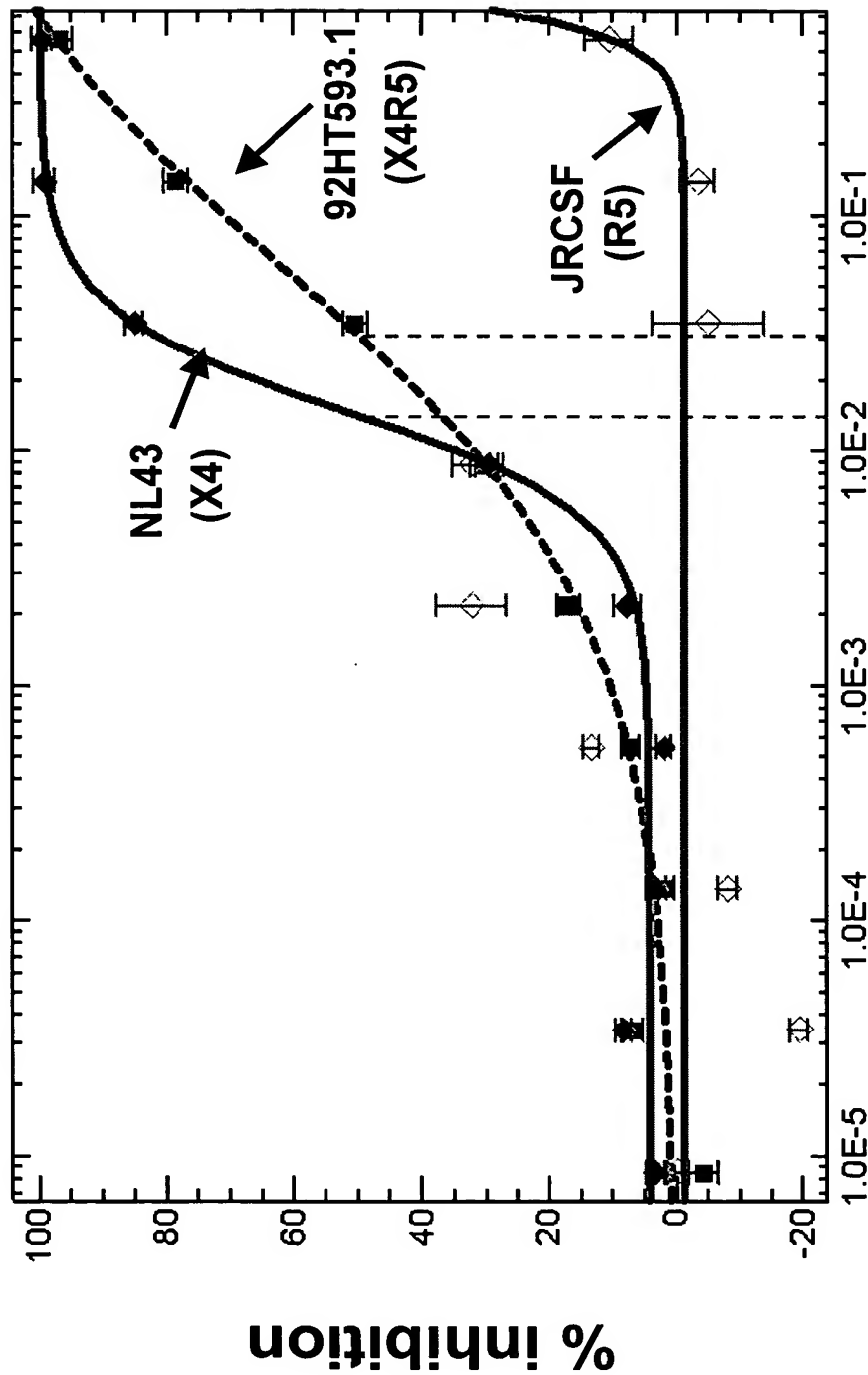
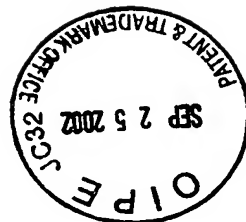
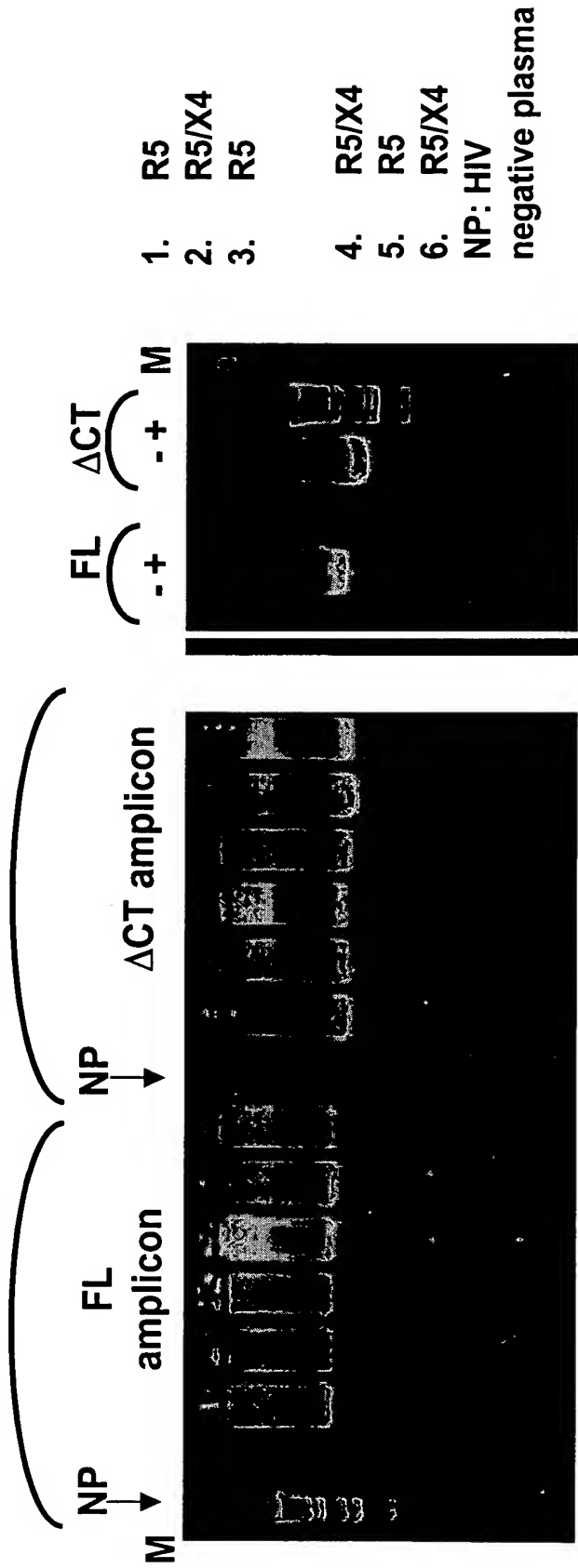


Fig. 5B

Drug: X4 Inhibitor  
Cell: CD4/CXCR4



# Envelope Sequence Amplification



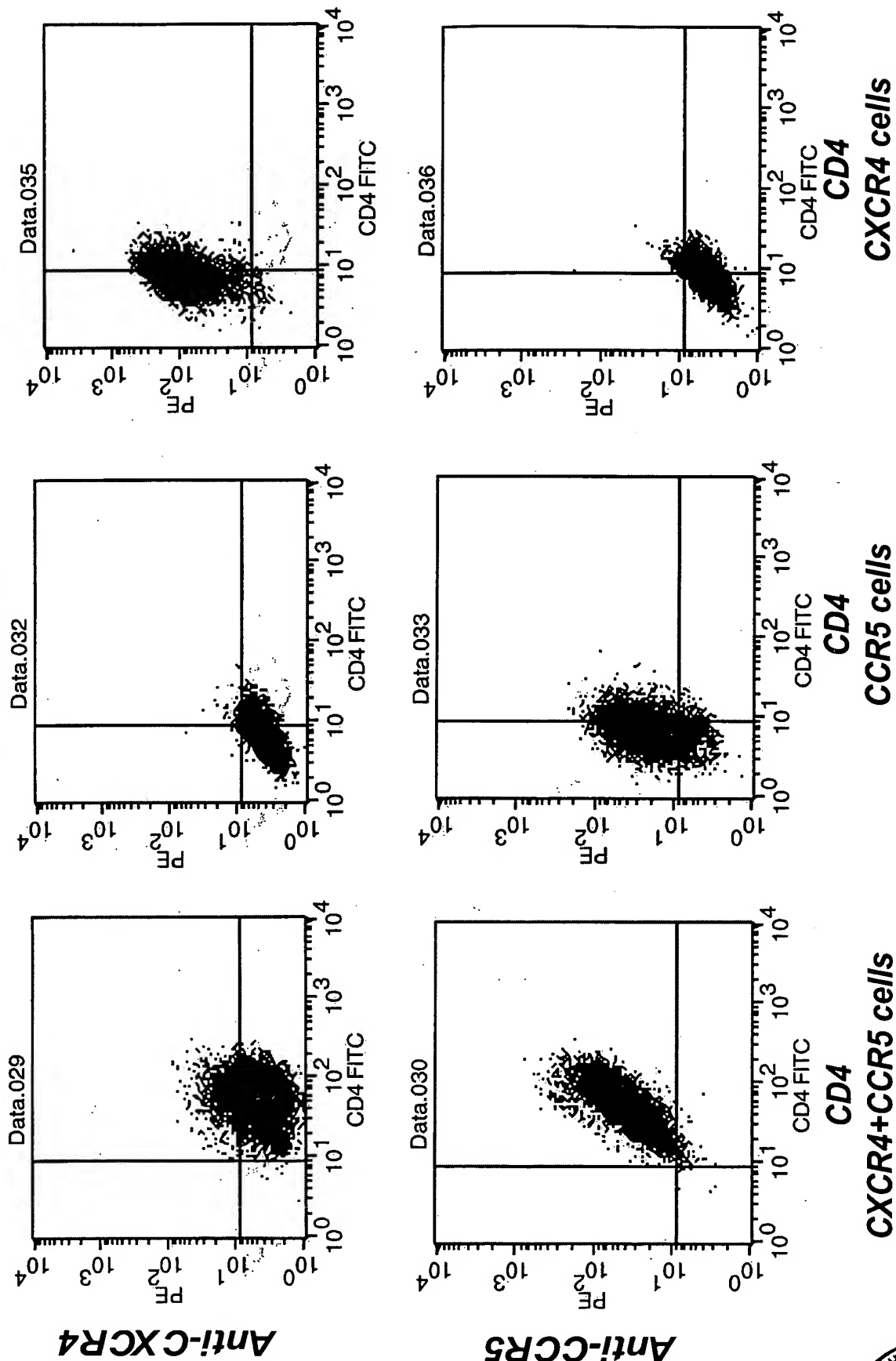
<u>Co-Receptor Tropism</u>						<u># of isolates</u>	
1	2	3	4	5	6	15	24
X4						15	35
R5							
X4/R5							
Undefined							
<u>Envelope Subtype</u>						<u># of isolate</u>	
Clade A						2	76
Clade B						7	
Clade C						1	
Clade D						3	
Clade E							

Fig. 6

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# Target Cell Receptor and Co-Receptor Expression

Fig. 7



# Inhibition By Co-Receptor Antagonists

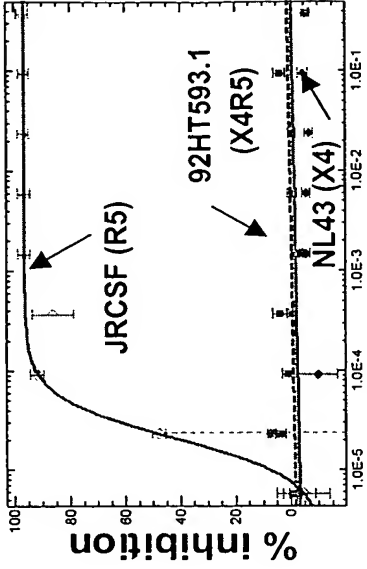
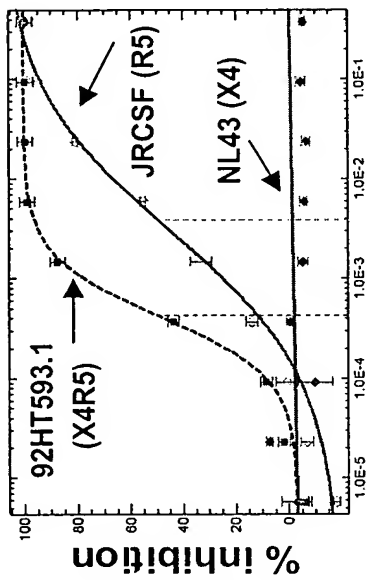
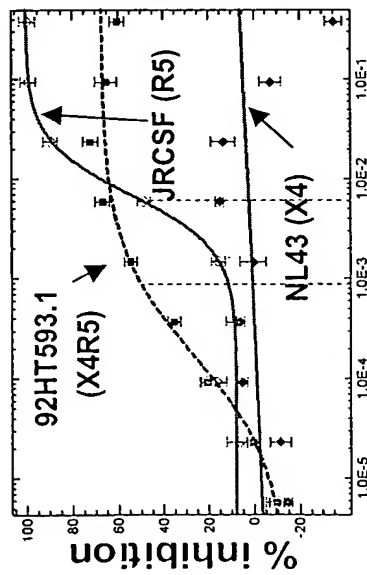
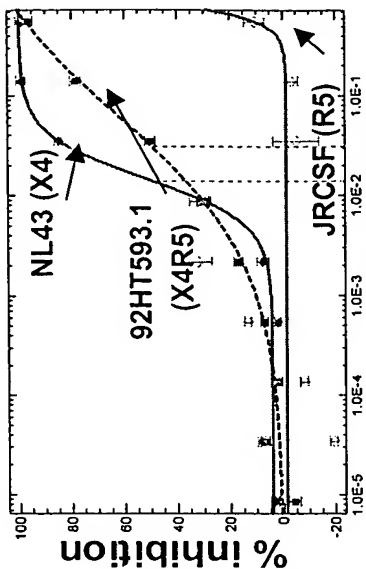
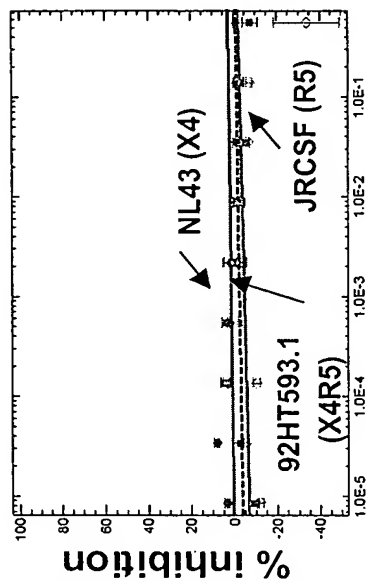
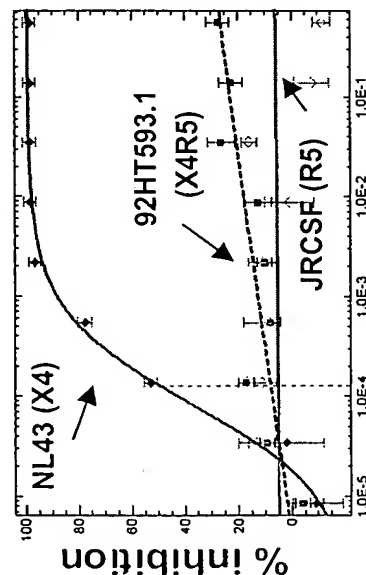


Fig. 8

# Fusion Inhibitor Peptides

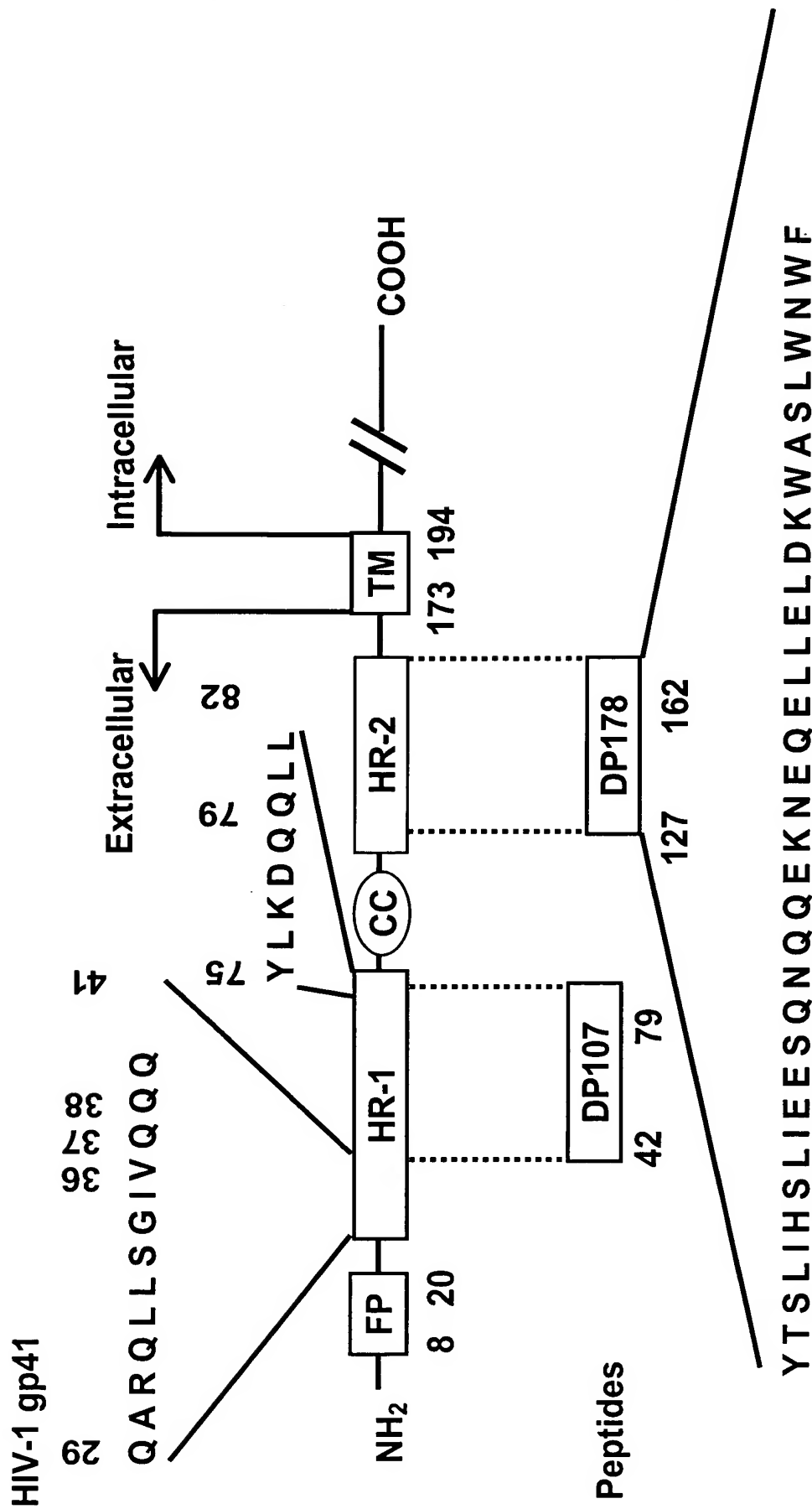


Fig. 9

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# Patient Virus v. Patient Antibody

Virus Date	Plasma (Antibody) Date									
	9/2/99	11/29/99	2/29/00	5/31/00	8/30/00	11/22/00	2/14/01	5/30/01	9/11/01	
9/2/99	26	219	675	1403	2670	2089	2190	2363	2411	
11/29/99	29	179	1024	2151	3733	3152	2808	2953	3086	
2/29/00	27	35	78	358	1769	1939	2247	3112	4345	
5/31/00	36	67	82	200	795	1078	1371	2208	3375	
8/30/00	19	48	36	64	76	166	556	937	1407	
11/22/00	29	43	64	76	90	119	374	721	1234	
2/14/01	42	65	61	152	117	134	122	289	526	
5/30/01	41	66	82	84	85	113	78	107	296	
9/11/01	42	62	56	62	85	77	55	61	95	

## Reference Virus

NL43	17	138	294	956	1172	953	1584	1868	2143
JRC SL	24	37	35	60	87	97	105	152	209

Fig. 10

